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REPAIR GUIDE

1. On the supposition of the most various troubles with the products that might happen, Repair Guide presents as many troubles, causes and remedies for them as possible.
   But we Canon Camera Company firmly believe that none of these troubles can happen.
2. The troubles are classified according to their mechanism as they are shown in the Table of Contents.
   Several causes are shown to one trouble and the remedies are arranged according to the causes.

SERVICE TOOL MANUAL

1. Service Tool Manual presents tools which are necessary for disassembling and assembling of the products and other exclusive inspection devices which are necessary to inspect and examine whether or not the products disassembled and re-assembled in the process of remedy are in the perfect original precision.
2. As for the exclusive inspection devices, each one of them is described on each one page.
3. Such tools as special screwdrivers and others that are neccessary for disassembling and assembling the products are arranged in numerical order.

   The number after the hyphen generally shows the part number for which the tool is to be used.

SERVICE MATERIALS MANUAL

1. Service Materials Manual presents chemicals necessary for assembling and adjusting the products and lubricating oil necessary for keeping the precision, in combination with the names of materials and members to be used for.
2. Do not use other chemicals and lubricating oil than those shown here. Please order them as well as repair parts from the Export Department in Canon Camera Company.
3. Service Materials Manual and Repair Manual have the same page number correspondingly so that you may easily identify.

PRICE LIST OF SERVICE PARTS

1. Price List of Service Parts presents the unit price of the service parts you received from us.
2. The unit price is F.O.B. Tokyo/Yokohama.
3. The page number on the Repair Manual in which each part is described is shown on the right side of each part so that you may easily identify.

SERVICE MANUAL REPORT

Service Manual Report is for the purpose of giving a prompt and exact information when some revisions are made on the products, namely, when the products are partly changed by the rationalization of production, the development of function, change of outward appearance and so on. Therefore, Service Manual Report is to be published whenever any revision is made on the products.

CANON DEMI SPECIFICATIONS

1. Type: A demi-size (24 × 18mm) precision camera using 35mm film with program shutter coupled to the built-in exposure meter.

2. Lens: CANON LENS SH 28mm 1:2.8
Compact and short lens of the improved triplet type composed of 5 elements in 3 components.
Coated with spectra coating method.
Angle of view is 55 degrees.
Zone focusing system by helicoid.

3. Shutter: SEIKOSHA-L
Program shutter of #000 size.
Behind-the-lens shutter.
Aperture-shutter combination is continuously variable between LV 8 (1/30 F2.8) and LV 17 (1/250 F22).
Provisions for B and ϟ (flash mark), when manual aperture setting is possible.

4. Flash: Flash mark sets the shutter speed to 1/30 and the circuit is for X contact.

5. Exposure Meter: Built-in selenium exposure meter of match-needle system is coupled to the program shutter.
Working range is from LV 6 to LV 17 for ASA 100 film.

6. Viewfinder: Real image viewfinder of Kepler type, composed of 4 lenses and 3 prisms.
Magnification is 0.41X.
Eyesight is 1 diopter.

7. Winding: Rapid winding lever system.
Can be wound by several short strokes.
Winding angle is 145 degrees.

8. Film Counter: Counts upward from zero. Self-resetting.

9. Dimensions: 115 × 68 × 37mm

10. Weight: 380gr.

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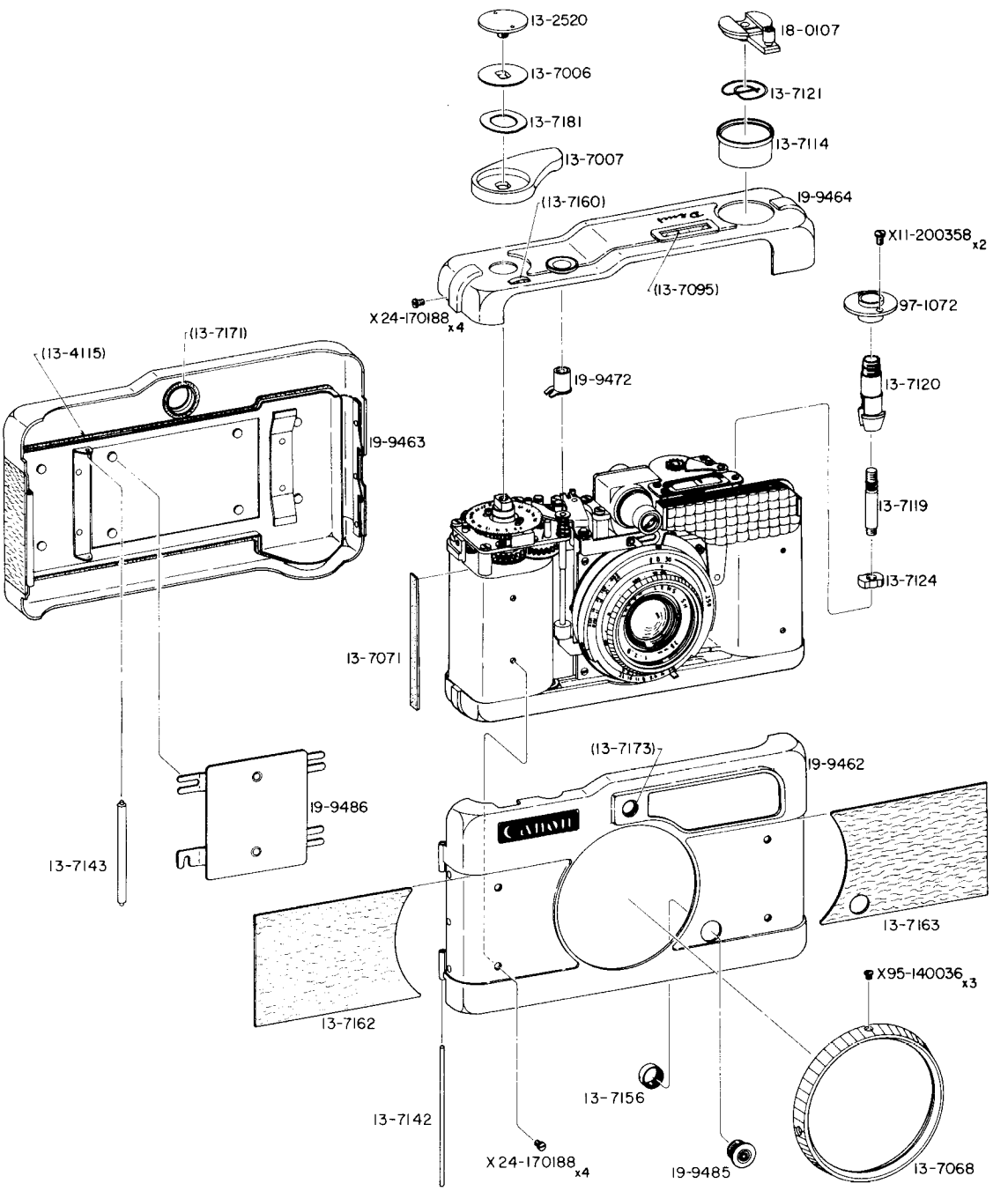
BASE PLATE 4

REF. NO. 1-45201

EXPLODED VIEW

of

CANON DEMI



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PARTS LIST

TOP COVER

19-9464	Top Cover (B. P.)
13-7095	Window
13-7160	Window
19-9472	Shutter Button (B. P.)
X24-170188	Screw × 4

WINDING LEVER

13-2520	Pin Face Screw
13-7006	Spacer
13-7007	Winding Lever
13-7181	Spring Washer

REWIND CRANK

13-7114	Rewind Crank Rest
13-7119	Rewind Shaft
13-7120	Rewind Fork
13-7121	Spring
13-7124	Nut
18-0107	Rewind Crank (Unit)
97-1072	Bearing
X11-200358	Screw × 2

FRONT COVER

13-7142	Shaft of Hinge
13-7156	Assemble Collar
13-7162	Leather
13-7163	Leather
19-9462	Front Cover (B. P.)
13-7173	Washer
19-9485	Flash Terminal (B. P.)
X24-170188	Screw × 4

BACK COVER

13-7071	Light Shield
13-7143	Anti Curl Roller
19-9463	Back Cover (B. P.)
13-4115	Light Shield
13-7171	Light Shield
19-9486	Pressure Plate (B. P.)

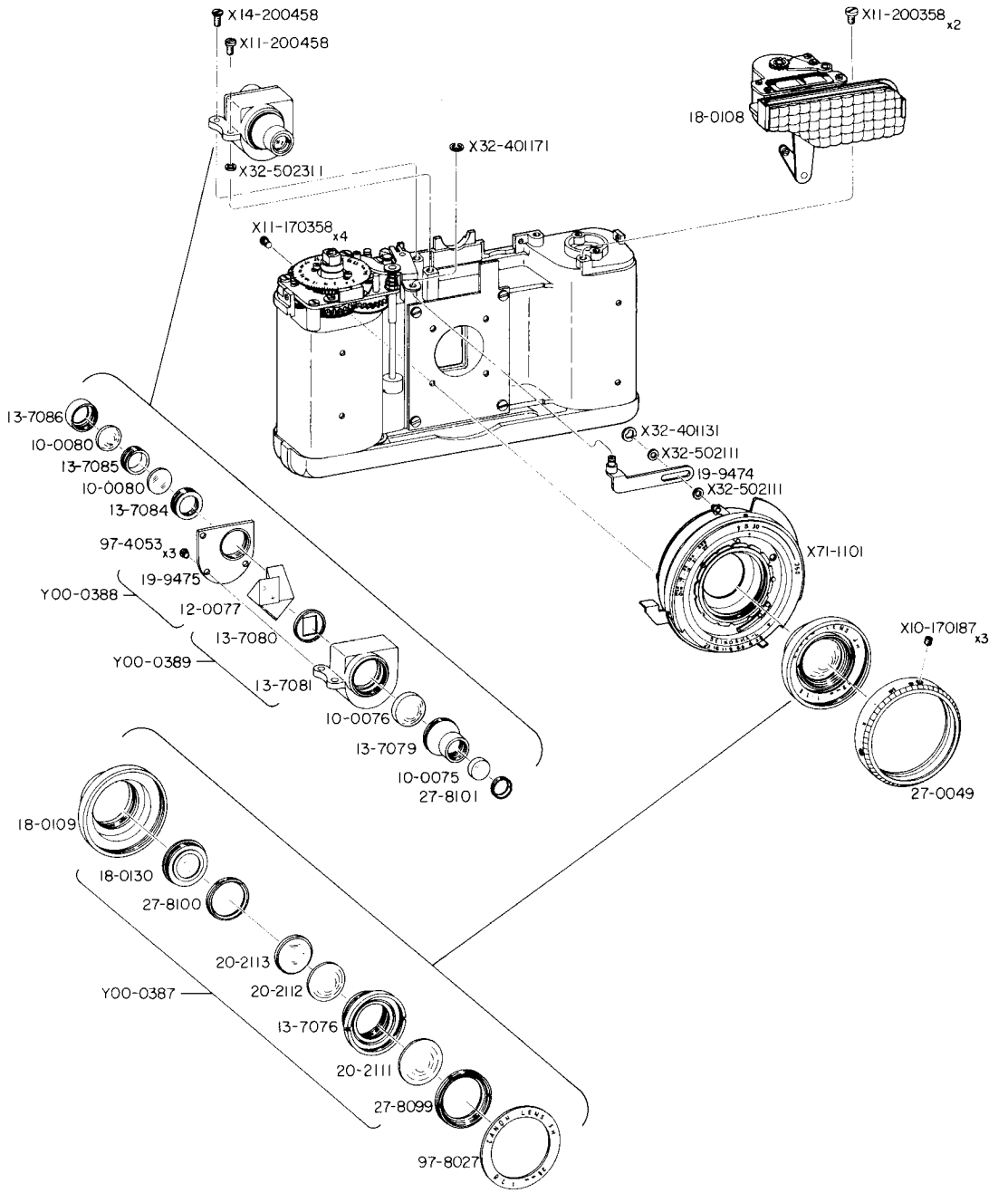
SHUTTER (cf. p. 2)

13-7068	Shutter Ring
X95-140036	Screw × 3

EXPLODED VIEW

of

CANON DEMI



PARTS LIST

EXPOSURE METER

18-0108	Exposure Meter (Unit)
X11-200358	Screw×2

SHUTTER (cf. p. 1)

19-9474	Shutter Charge Rod (B. P.)
X11-170358	Screw×4
X32-401131	Retaning Washer
X32-401171	Retaning Washer
X32-502111	Washer×2
X71-1101	Shutter Unit

VIEWFINDER

Y00-0388	Viewfinder Prism (B. P.)
12-0077	Viewfinder Prism (B. P.)
19-9475	Prism Base (B. P.)
Y00-0389	Finder Prism Box (B. P.)
13-7080	Finder Mask
13-7081	Finder Prism Box
10-0075	Lens
10-0076	Lens
10-0080	Lens×2
13-7079	Finder Tube
13-7084	Eyepiece Barrel
13-7085	Assemble Collar
13-7086	Eyepiece Ring
27-8101	Assemble Collar
97-4053	Screw×3
X11-200458	Screw
X14-200458	Screw
X32-502311 X32-502312 X32-502313	Washer×N

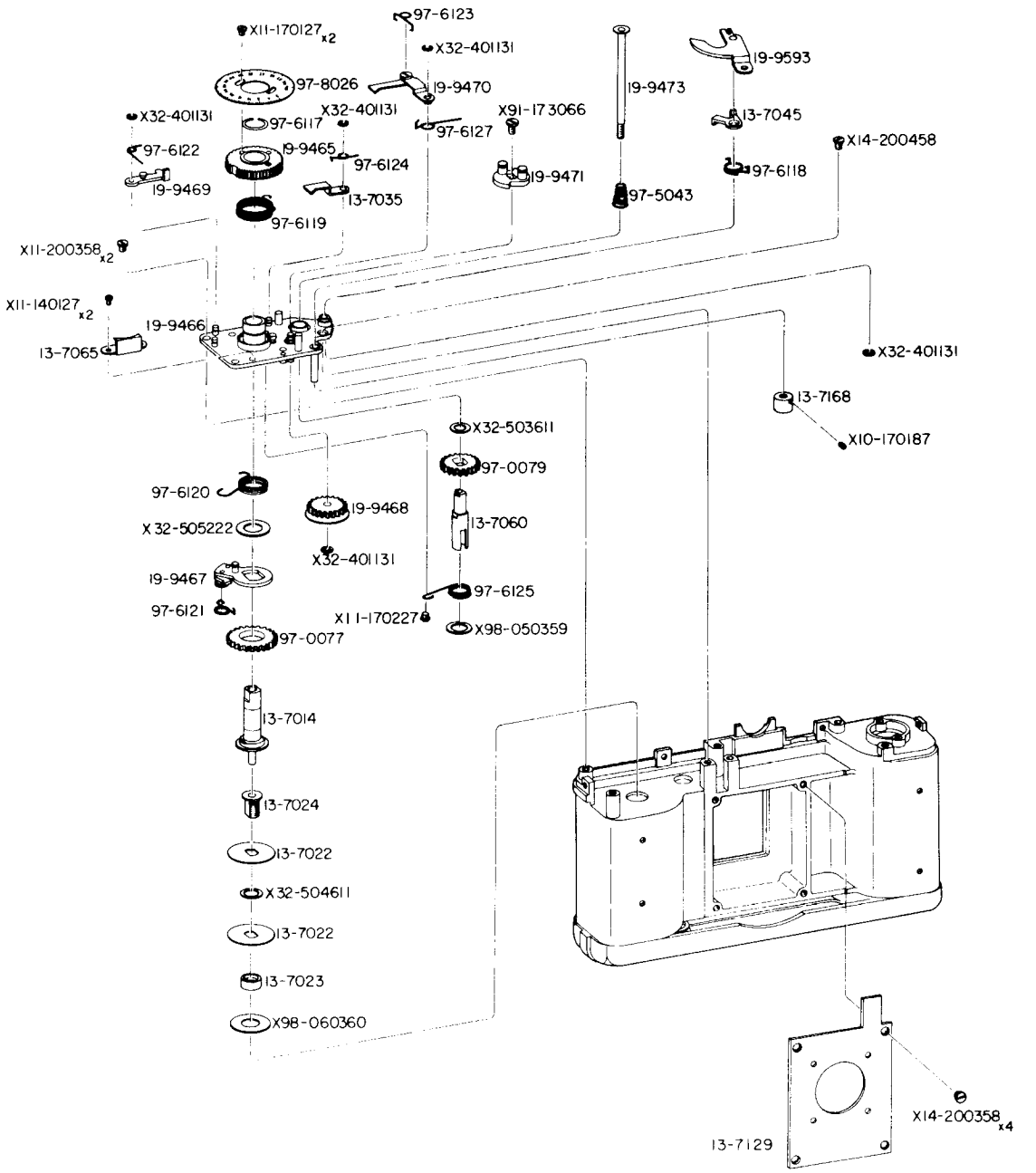
OBJECTIVE LENS

Y00-0387	Objective Lens (Unit)
13-7076	Lens Barrel
18-0130	Rear Lens (Unit)
20-2111	Lens
20-2112	Lens
20-2113	Lens
27-8099	Assemble Collar
27-8100	Assemble Collar
18-0109	Helicoid (Unit)
27-0049	Focusing Ring
97-8027	Name Plate
X10-170187	Screw×3

EXPLODED VIEW

of

CANON DEMI



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PARTS LIST

WINDING DEVICE

13-7014	Winding Lever Shaft
13-7022	Friction Disk × 2
13-7023	Assemble Collar
13-7024	Spool Shaft
13-7045	Stopper Lever
13-7060	Sprocket Clutch
13-7168	Nut
19-9466	Winding Device Base (B. P.)
19-9467	Winding Pawl (B. P.)
19-9468	Idle Gear (B. P.)
19-9471	Shutter Charge Disk (B. P.)
19-9473	Shutter Shaft (B. P.)
19-9593	Shutter Charge Lever (B. P.)
97-0077	Winding Gear
97-0079	Sprocket Gear
97-5043	Coil Spirng
97-6118	Spring
97-6120	Spring
97-6121	Spring
97-6125	Spring
X10-170187	Screw
X11-170227	Screw
X11-200358	Screw × 2
X14-200458	Screw
X32-401131	Retaining Washer × 2
X32-503611	Washer
X32-504611	Washer × N
X32-505222	Washer
X91-173066	Screw
X98-050359	Washer
X98-060360	Washer

FILM COUNTER

13-7035	Stopper Claw
13-7065	Counter Index
19-9465	Counter Gear (B. P.)
19-9469	Counter Resetting Lever (B. P.)
19-9470	Feeding Claw (B. P.)
97-6117	Retainer
97-6119	Spring
97-6122	Spring
97-6123	Spring
97-6124	Spring
97-6127	Spring
97-8026	Counter Dial
X11-140127	Screw × 2
X11-170127	Screw × 2
X32-401131	Retaining Washer × 3

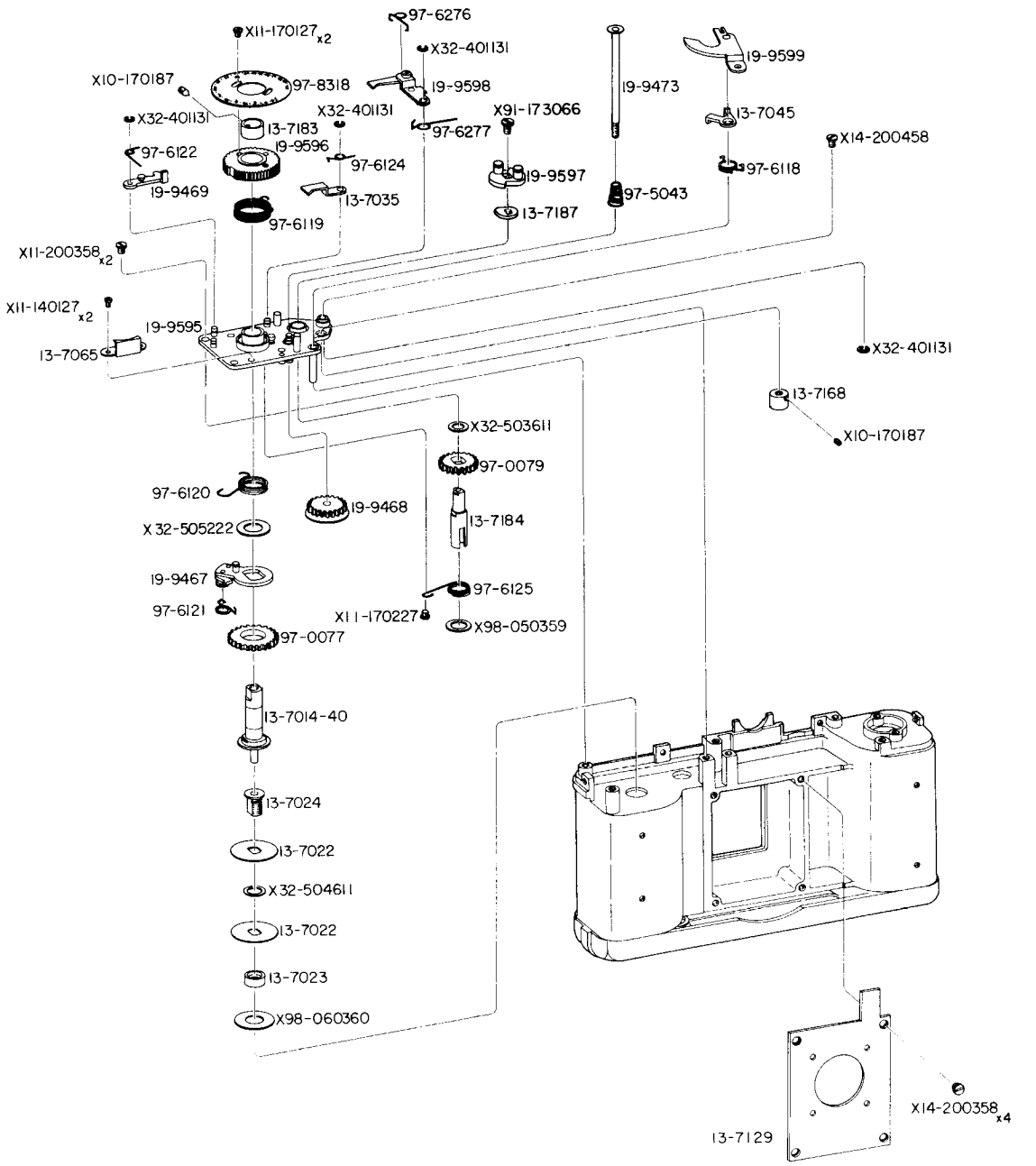
FRONT PANEL

13-7129	Front Panel
X14-200358	Screw × 4

EXPLODED VIEW

of

CANON DEMI



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PARTS LIST

WINDING DEVICE

13-7014-40	Winding Lever Shaft
13-7022	Friction Disk ×2
13-7023	Assemble Collar
13-7024	Spool Shaft
13-7045	Stopper Lever
13-7168	Nut
13-7184	Sprocket Clutch
19-9467	Winding Pawl (B. P.)
19-9468	Idle Gear (B. P.)
19-9473	Shutter Shaft (B. P.)
19-9595	Winding Device Base (B. P.)
19-9597	Shutter Charge Disk (B. P.)
19-9599	Shutter Charge Lever (B. P.)
97-0077	Winding Gear
97-0079	Sprocket Gear
97-5043	Coil Spring
97-6118	Spring
97-6120	Spring
97-6121	Spring
97-6125	Spring
X10-170187	Screw
X11-170227	Screw
X11-200358	Screw ×2
X14-200458	Screw
X32-503611	Washer
X32-504611	Washer ×N
X32-505222	Washer
X91-173066	Screw
X98-050359	Washer
X98-060360	Washer

FILM COUNTER

13-7035	Stopper Claw
13-7065	Counter Index
13-7183	Assemble Collar
13-7187	Counter Cam
19-9469	Counter Resetting Lever (B. P.)
19-9596	Counter Gear (B. P.)
19-9598	Feeding Claw(B. P.)
97-6119	Spring
97-6122	Spring
97-6124	Spring
97-6276	Spring
97-6277	Spring
97-8318	Counter Dial
X10-170187	Screw
X11-140127	Screw ×2
X11-170127	Screw ×2
X32-401131	Retaining Washer ×3

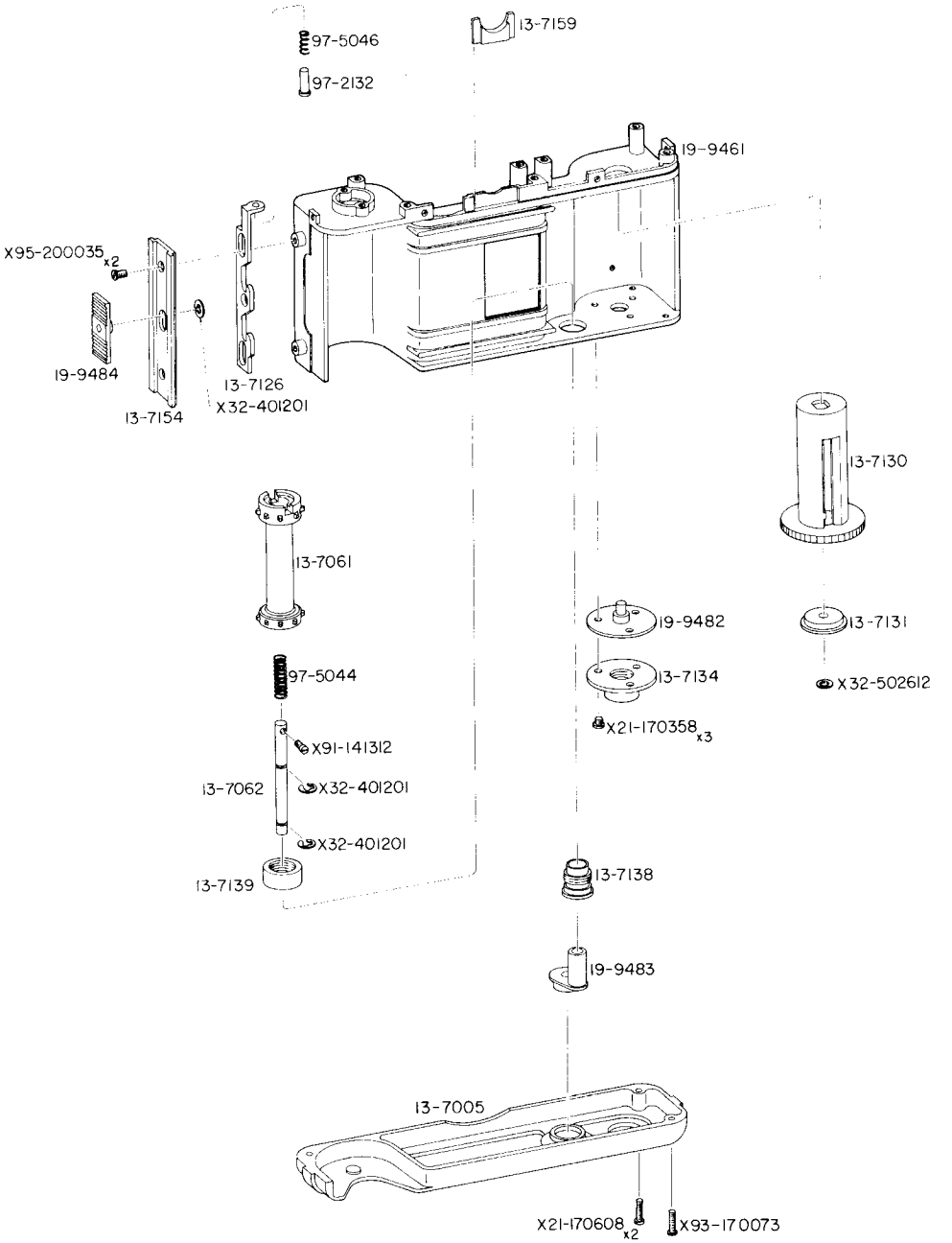
FRONT PANEL

13-7129	Front Panel
X14-200358	Screw ×4

EXPLODED VIEW

of

CANON DEMI



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PARTS LIST

BODY CASE

13-7126	Hook
13-7154	Hook Cover
13-7159	Light Shield
19-9461	Body Case (B. P.)
19-9484	Back Cover Lock Button (B. P.)
97-2132	Spring Holder
97-5046	Coil Spring
X32-401201	Retaining Washer
X95-200035	Screw × 2

TAKE-UP SPOOL

13-7130	Take-Up Spool
13-7131	Spool Holder
19-9482	Spool Shaft (B. P.)
X32-502612	Washer

TRIPOD SOCKET

13-7134	Tripod Socket
X21-170358	Screw × 3

SPROCKET

13-7061	Sprocket
13-7062	Sprocket Shaft
13-7138	Bearing
13-7139	Assemble Collar
19-9483	Rewind Button (B. P.)
97-5044	Coil Spring
X32-401201	Retaining Washer × 2
X91-141312	Screw

BASE PLATE

13-7005	Base Plate
X21-170608	Screw × 2
X93-170073	Screw

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CANON REPAIR MANUAL

CANON COLOUR DEMI

(REFERENCE NO. 1-45203)
(REFERENCE NO. 1-45204)
(REFERENCE NO. 1-45205)

CANON CAMERA COMPANY INC.

TOKYO, JAPAN

REF. NO. 1-45203
REF. NO. 1-45204
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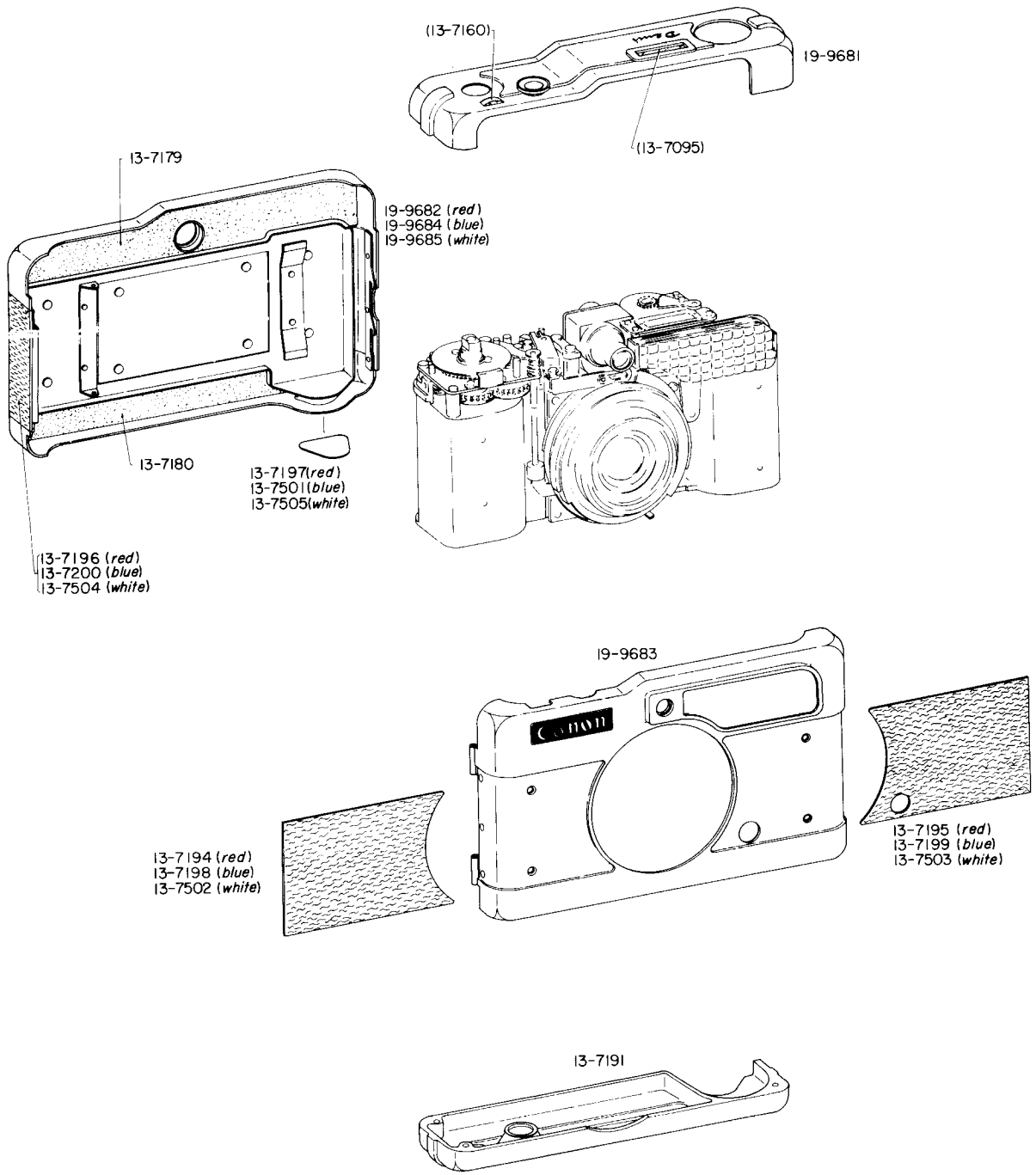
EXPLODED VIEW

of

CANON COLOUR DEMI



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CANON CAMERA CO., INC. ©

REF. NO. 1-45203

REF. NO. 1-45204

REF. NO. 1-45205

Canon Colour Demi is absolutely the same product in mechanism as Canon Demi dose, we therefor picked up only parts which are used in the Colour Demi for this repair manual . The rest of the parts are the same parts as 1-45201's, in the case if necesary, refer to the repair manual I-45201.

PARTS LIST

13-7191	Base Plate
13-7194	Leather (Red)
13-7195	Leather (Red)
13-7198	Leather (Blue)
13-7199	Leather (Blue)
13-7502	Leather (White)
13-7503	Leather (White)
19-9681	Top Cover (B. P)
19-9682	Back Cover (Red) (B. P)
13-7196	Leather (Red)
13-7197	Leather (Red)
19-9683	Front Cover (B. P)
19-9684	Back Cover (Blue) (B. P)
13-7200	Leather (Blue)
13-7501	Leather (Blue)
19-9685	Back Cover (White) (B. P)
13-7504	Leather (White)
13-7505	Leather (White)

CANON REPAIR MANUAL

EXPOSURE METER & SHUTTER

for

CANON DEMI

(REFERENCE NO. 1-45211)

CANON CAMERA COMPANY INC.

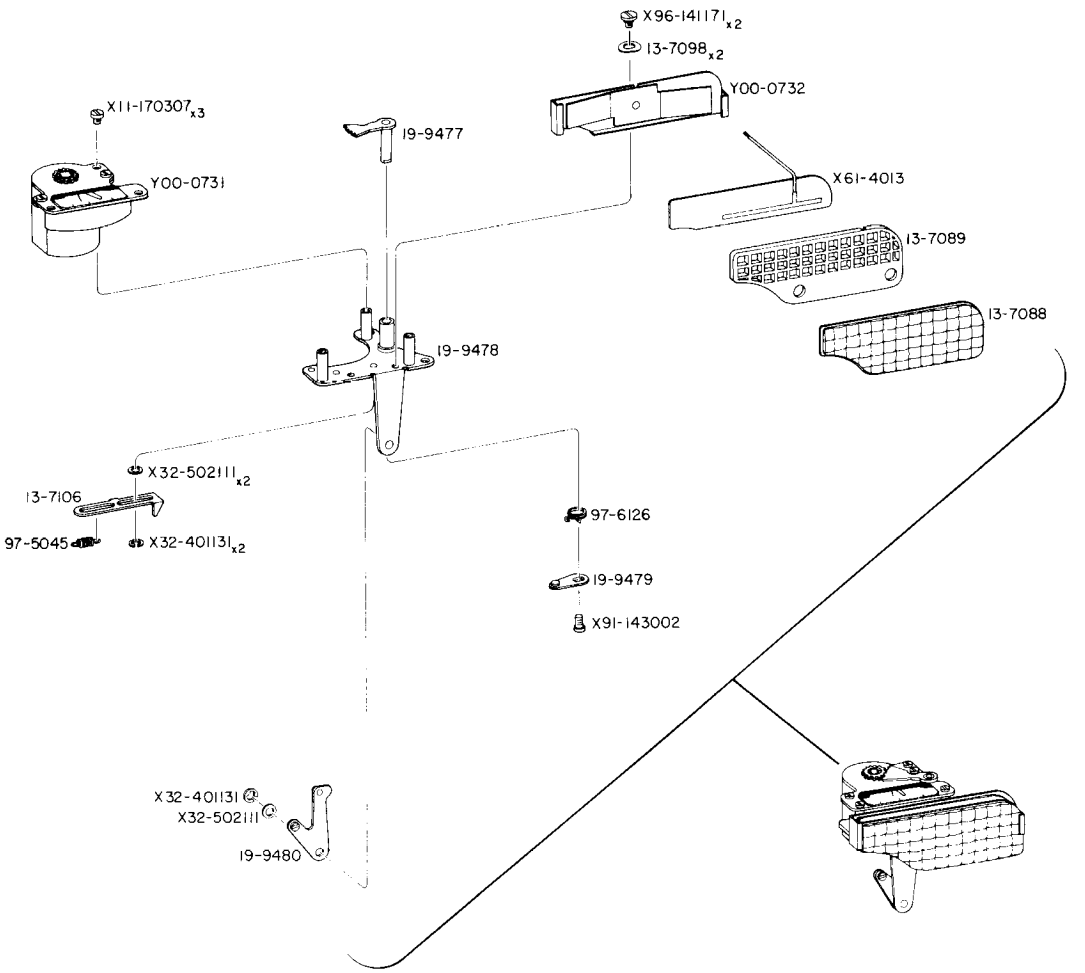
TOKYO, JAPAN

First Printing, December, 1965

EXPLODED VIEW

of

SHUTTER for CANON DEMI



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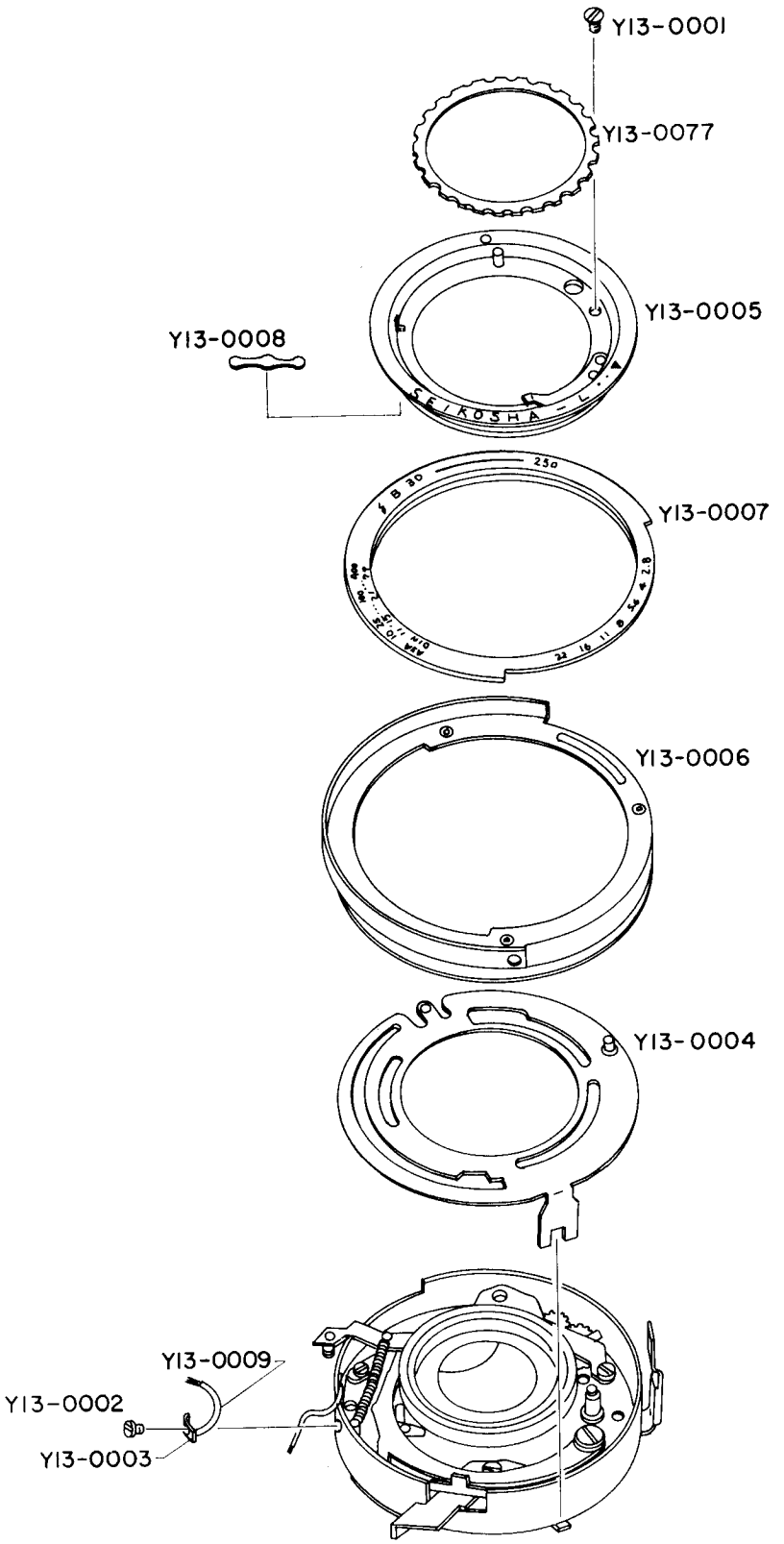
SHUTTER for CANON DEMI



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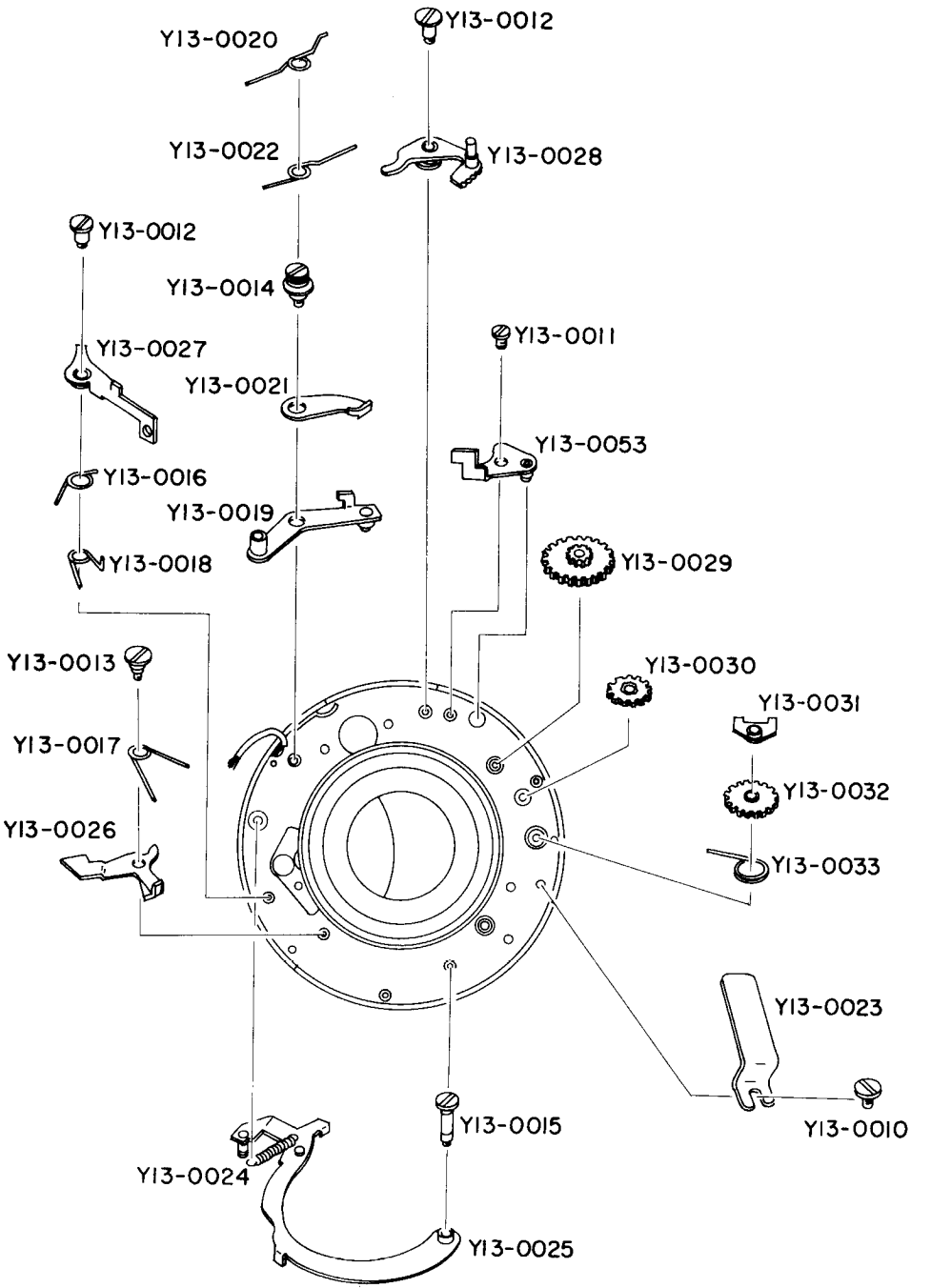
CANON CAMERA CO., INC. ®

EXPLODED VIEW

of

SHUTTER for CANON DEMI



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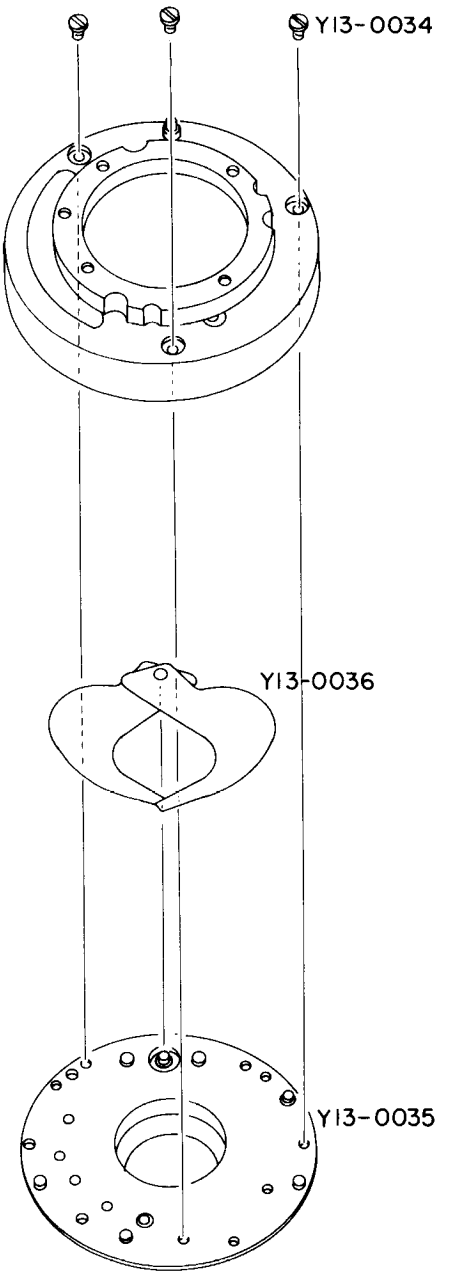
EXPLODED VIEW

of

SHUTTER for CANON DEMI



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EXPLODED VIEW

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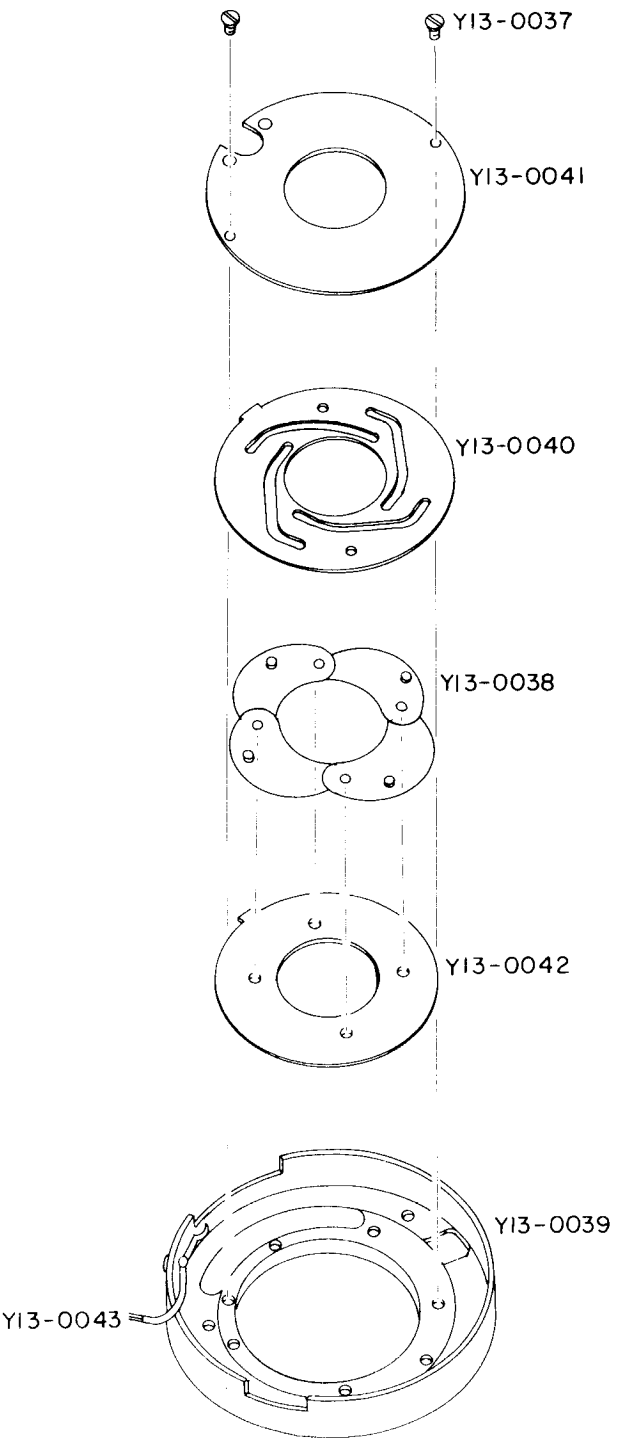
SHUTTER for CANON DEMI



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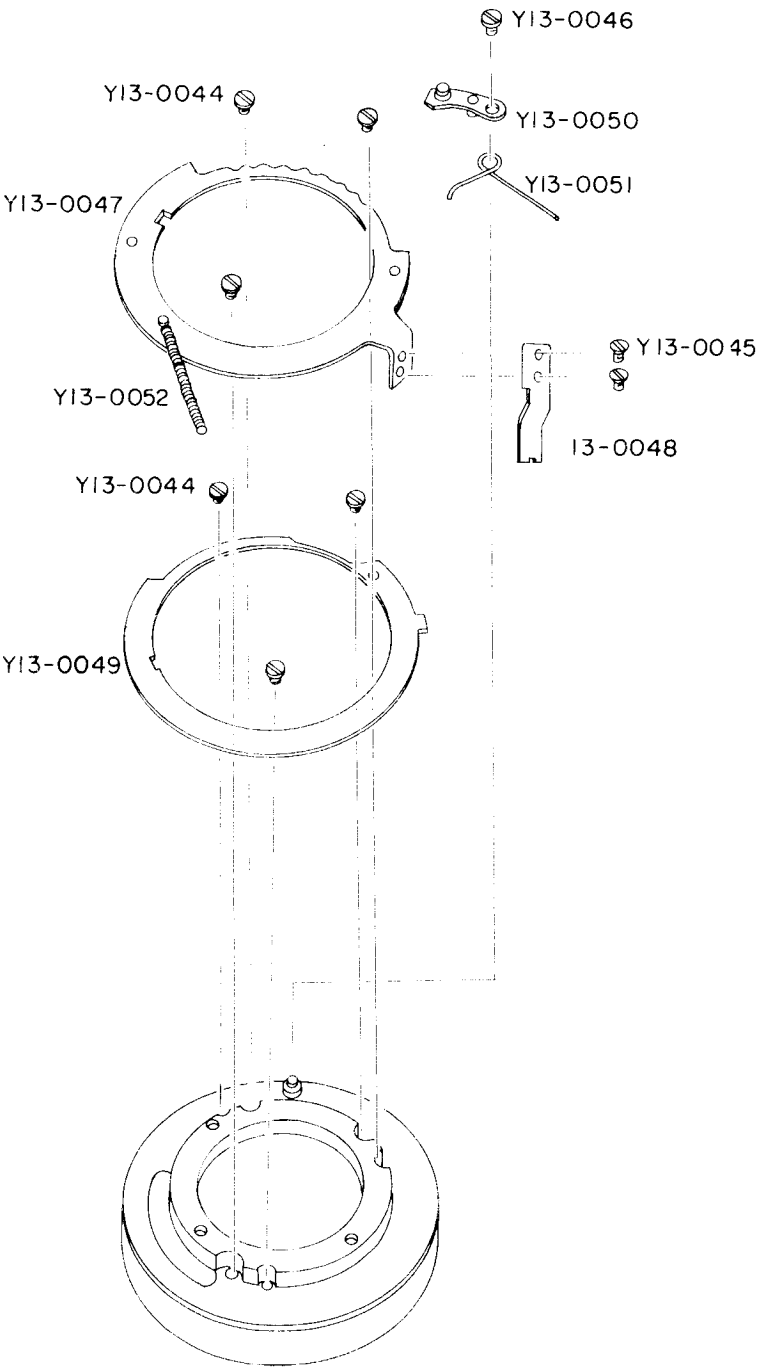
EXPLODED VIEW

of

EXPOSURE METER for CANON DEMI



NO SCALE

CANON CAMERA CO., INC. R

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FRONT COVER DISASSEMBLING

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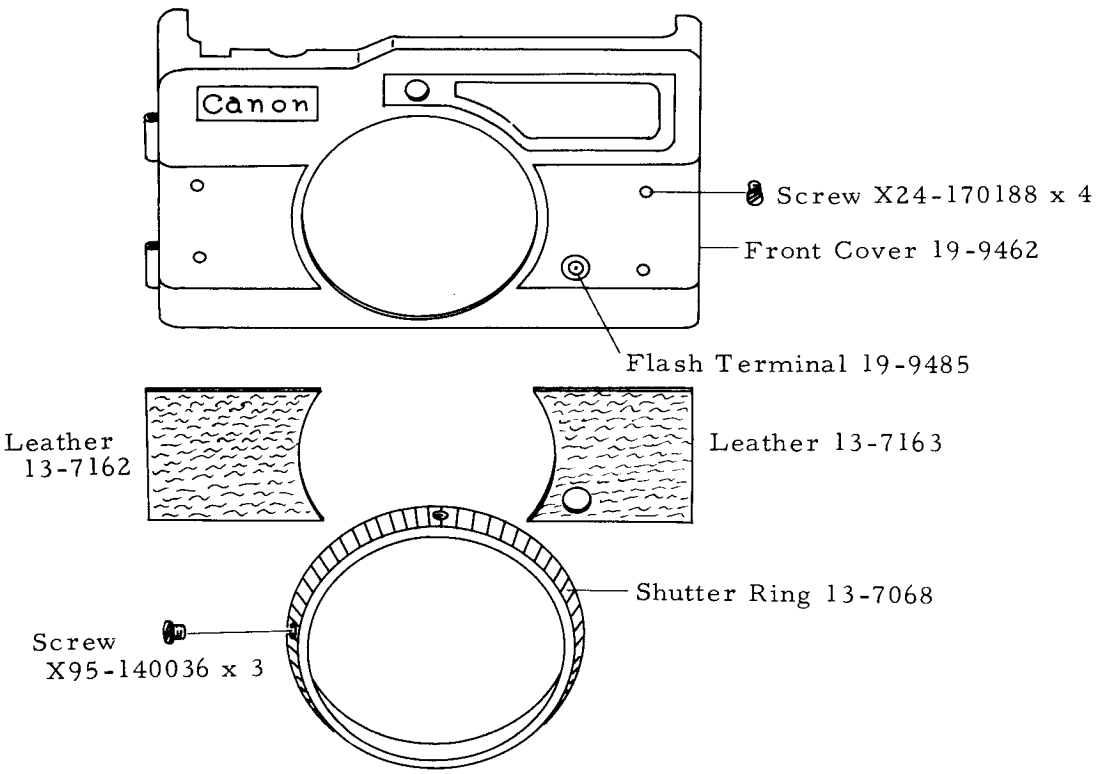
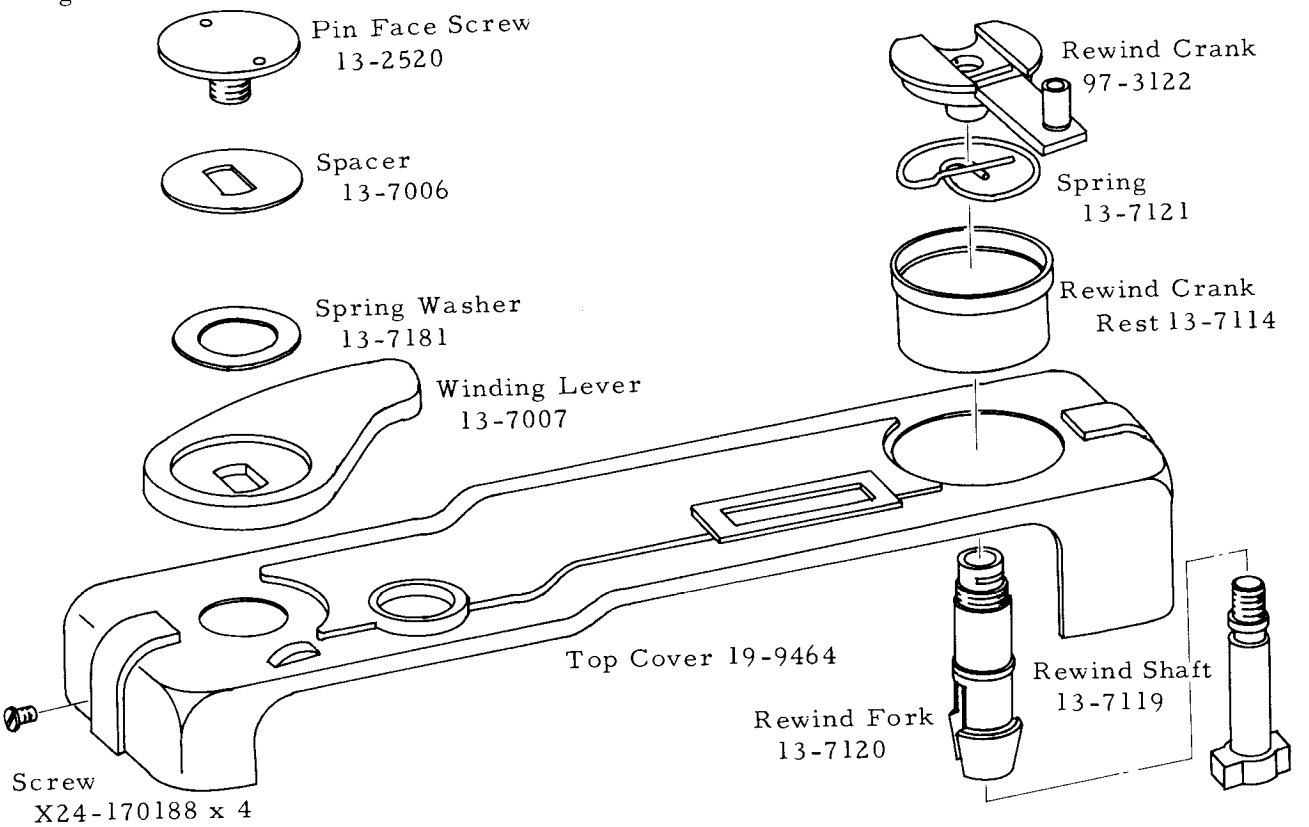


	Work	Order	Note
1.	Removal of shutter ring	$\frac{13\text{-}7068}{\text{Shutter Ring}} - \frac{X95\text{-}140036}{\text{Screw}} \times 3$	
2.	Removal of leather	$\frac{13\text{-}7162}{\text{Leather}} - \frac{13\text{-}7163}{\text{Leather}}$	2.1 The leather is to be peeled off only up to the positions of the screws. It does not have to be completely peeled off.
3.	Removal of front cover	$\frac{X24\text{-}170188}{\text{Screw}} \times 4 - \frac{19\text{-}9462}{\text{Front Cover}}$	
4.	Unsoldering flash terminal	Remove the solder (inner side) from the tip of $\frac{19\text{-}9485}{\text{Flash Terminal}}$	

TOP COVER DISASSEMBLING

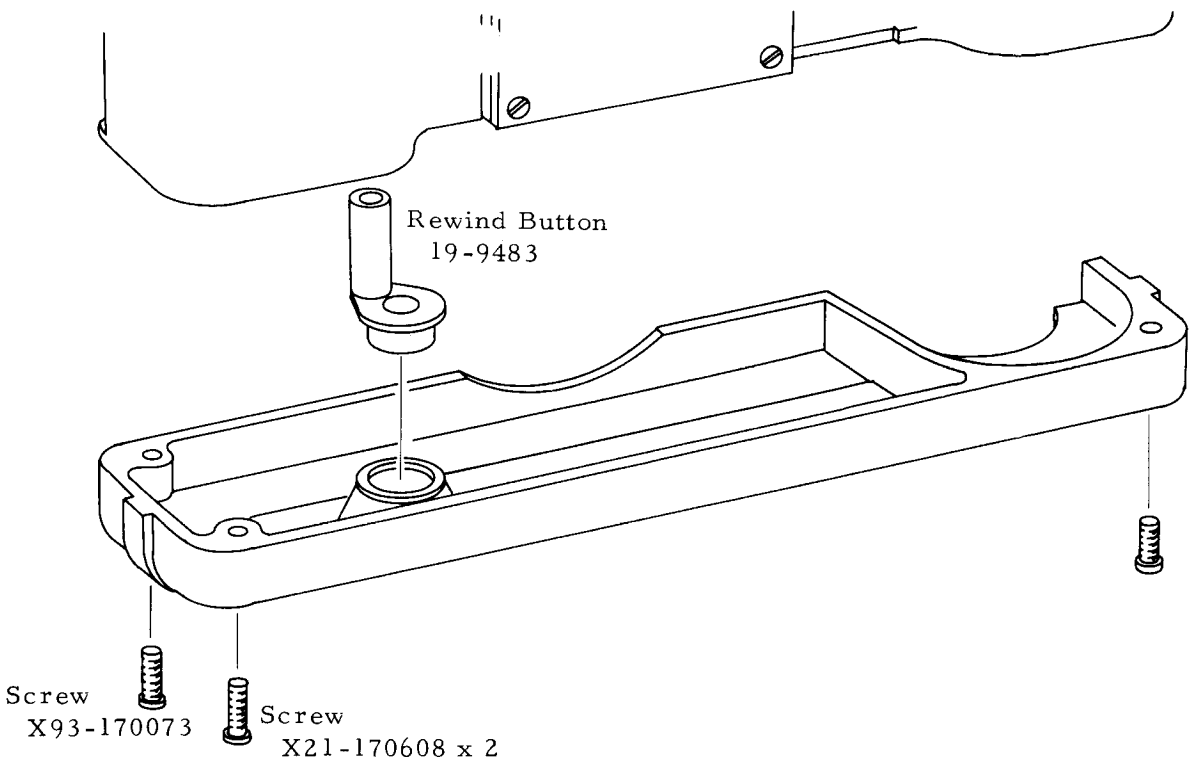
Fig. 2



Work	Order	Note
1. Removal of top cover		
1.1. Removal of winding lever	T06A-13-2280-1 (Exclusive Tool) – 13-2520 (Pin Face Screw) – 13-7006 (Spacer) – 13-7181 (Spring Washer) – 13-7007 (Winding Lever)	
1.2. Removal of rewind crank	Crank Set 13-7121 (Spring) – 13-7114 (Rewind Crank Rest) – 13-7120 (Rewind Fork) – 13-7119 (Rewind Shaft)	1.2.1. The fork is inserted with the the handle of the brush. 1.2.2. The ring is removed with the exclusive tool (T06A-13-7114-1)
1.3. Removal of top cover screws	X24-170188 (Screw) x 4	1.3.1. In the final stage of removing the top cover, press the 0 reset lever of the film counter plate.

BASE PLATE DISASSEMBLING

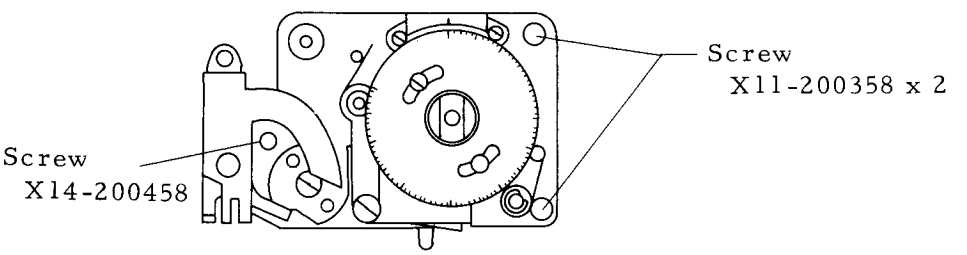
Fig. 3



Work	Order	Note
1. Removal of base plate	$\frac{\text{X93-170073}}{\text{Screw}} - \frac{\text{X21-170608x2}}{\text{Screw}}$ x 2	1.1. Be careful not to mistake the screws and the screw positions.

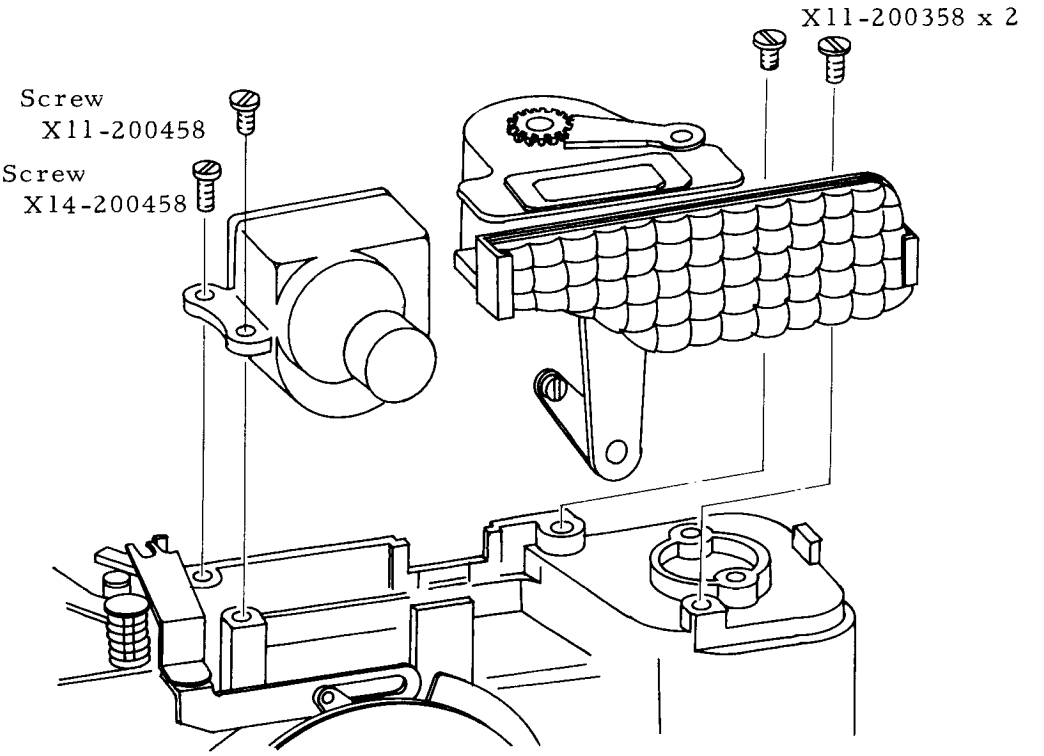
WINDING DEVICE BASE DISASSEMBLING

Fig. 4



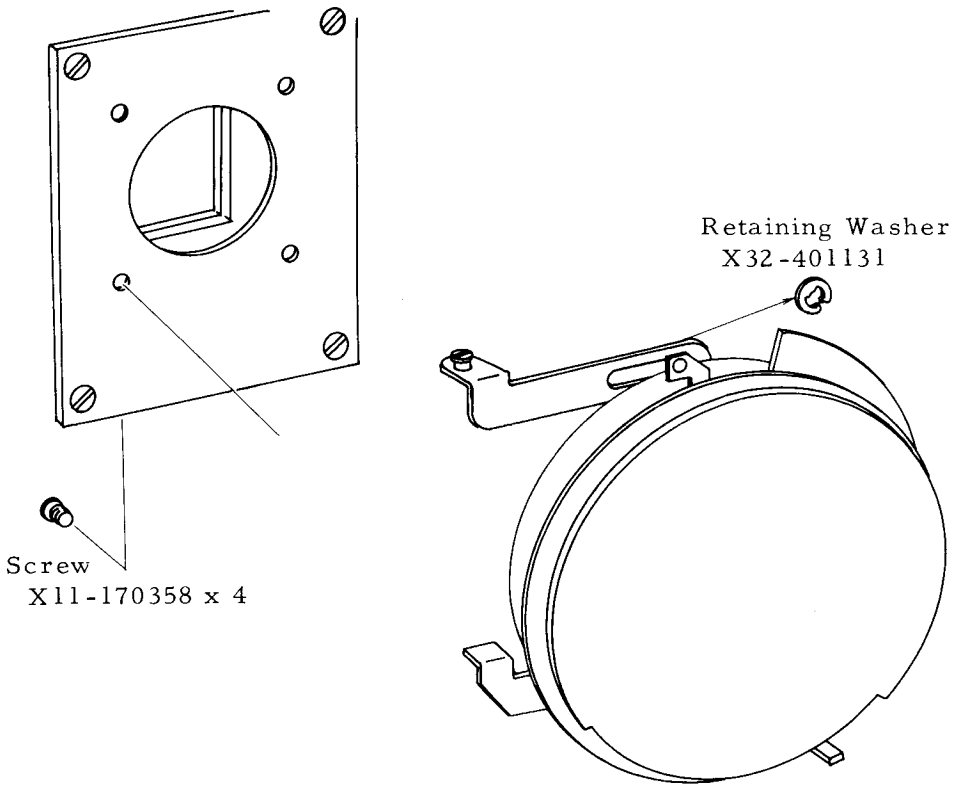
Work	Order	Note
1. Removal of winding-device base	$\frac{\text{X11-200358}}{\text{Screw}}$ x2 – $\frac{\text{X14-200458}}{\text{Screw}}$ x1	

Fig. 5



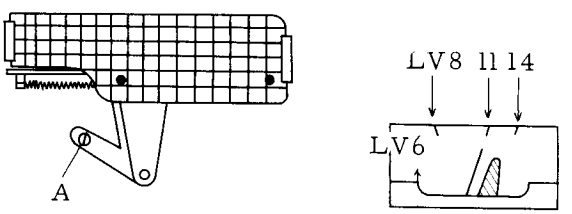
Work	Order	Note
1. Removal of viewfinder	X11-200458 Screw _ X14-200458 Screw	
2. Removal of exposure exposure meter	X11-200358 Screw x2	

Fig. 6



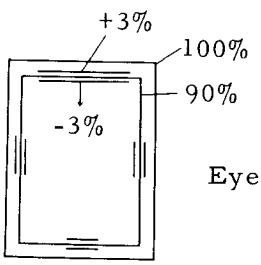
Work	Order	Note
1. Removal of shutter	X11-170358 (Screw) x4 — X32-401131 (Retaining Washer)	1.1. Remove the 4 screws while looking from the aperture (back). 1.2. Be careful not to lose the washers in front and back of the Retaining Washer.

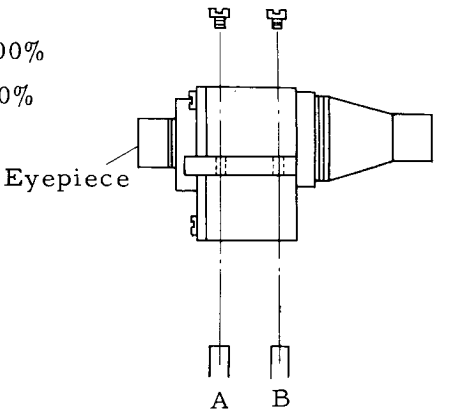
Fig. 7

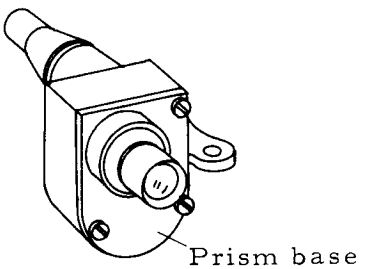


1. Set the film sensitivity at 100 (ASA) and the aperture stop at 5.6.
2. The position of the needle at this time should be aligned to LV11.
3. If not, adjust with the eccentric screw as shown in Fig. 7.
4. After the adjustment has been made turn the ASA ring and the shutter ring and check to see if they revolve smoothly and lightly.
5. Also refer to Inspection Standard 7-1.

Fig. 8 Fig. 9 Fig. 10







Using the field-of-view collimator set the camera on the supporter.

Order

1. Open the back cover, set frosted glass against the aperture and look at Fig. 8. Match the picture frame to Fig. 8. (Picture frame limit 90% ± 3%)
2. Look into the finder and check the deviation.

Adjustment

* Vertical adjustment
(Refer to Fig. 9)
Facing too far up (to lower) ⟶ put washer on A.
Facing too far down (to lift) ⟶ put washer on B.

* Horizontal adjustment
After loosening the screws shown in Fig. 9 adjust by moving (turning) the tip of the finder.

* Slant adjustment (image)
Loosen the 3 screws on the prism base and adjust by turning to right and left. (Refer to Fig. 10)

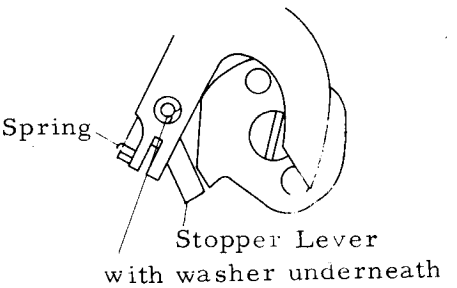
* Slant adjustment (frame)
Adjust by slanting the entire finder.

WINDING

Windup is impossible

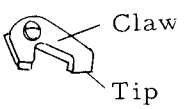
1. Stopper lever movement is bad.
   In order to improve the movement of Stopper Lever 13-7045 in Fig. 11, strengthen the spring or remove the washer.

Fig. 11



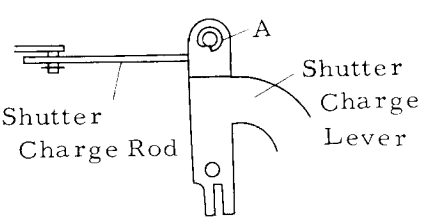
2. Too many washers.
   Here also, improve the movement of Stopper Lever 13-7045 with the washer.
3. Stopper Lever touches shutter charge lever.
   Adjust with the washer or slightly bend the part that is causing friction.
4. Stopper Lever touches winding device base.
   File off the tip of Stopper Lever 13-7045.

Fig. 12



5. Spring is weak.
   Refer to Clause 1.
6. When shutter is released there is no gap between stopper lever and shutter charge lever.
   Widen the gap of Shutter Charge Lever 19-9593 and make the gap between Stopper Lever 13-7045 and Shutter Charge Lever. (0.1-0.2 mm.) (Refer to Fig. 11)
7. Shutter charge rod movement is bad.
   Adjust with washer in Fig. 13-A.

Fig. 13



8. Shutter charge rod is bent.
   Repair the bend in Shutter Charge Rod 19-9474.
9. Eccentric screw of shutter charge rod is tight.
   Enlarge the hole of Shutter Charge Lever 19-9593 with a file.
10. Retaining washers of shutter charge rod are loose.
    Attach Retaining Washer X32-401131.

11. Shutter is bad.
    Replace Shutter Unit X71-1101.

Winding lever return is bad

1. Base is bent.
   Replace Winding Device Base 19-9466.
2. Shaft is eccentric.
   Replace winding shaft (numerous in old winding device base.)
3. Surface of friction disk is bad.
   Replace Friction Disk 13-7022 or readjust parallel.

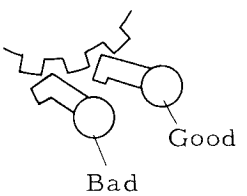
Winding lever is loose

1. Shaft and Screw (C7025) are loose.
   Retighten.
2. Pin Face screw is loose.
   Retighten.

Winding lever slips

1. Winding pawl slips.
   When the winding pawl under the winding device base slips, replace Winding Pawl 19-9467 or readjust the angle.

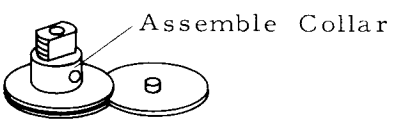
Fig. 14



Film slackens

1. Spool torque is weak.
   Retighten Assemble Collar 13-7023 to strengthen the friction or replace Friction Disk 13-7022.

Fig. 15

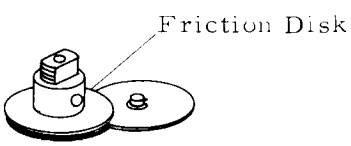


2. Assemble collar does not tighten completely.
   Replace Spool Shaft 13-7024 or Assemble Collar 13-7023.

Rewinding is heavy

1. Rewind crank shaft needs oiling.
   Put on Perma-Lube Ad-1.

Fig. 16

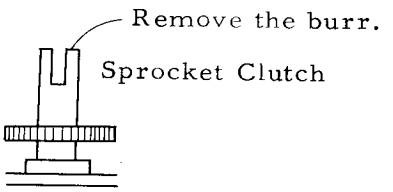


2. Spool torque is heavy.
   a. Remove the burr on Friction Disk 13-7022.
   b. Insert washer in between the friction disks (Between 2 disks).
   c. Put Liquid Molybdenum grease on the friction disk.

Rewind button return is bad

1. The burrs are on the key screw surface of sprocket clutch.
   Remove the burr on Sprocket Clutch 13-7060 with a file.

Fig. 17



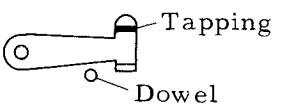
2. Key screw is too long.
   Replace Screw X91-141312.
3. Coil spring is weak.
   Strengthen or replace Coil Spring 97-5044.
4. Rewind button movement is bad.
   Put Liquid Molybdenum on the rewind button. However, when the movement is especially bad replace Bearing 13-7138 and Rewind Button 19-9483.

FILM COUNTER

Film counter does not move

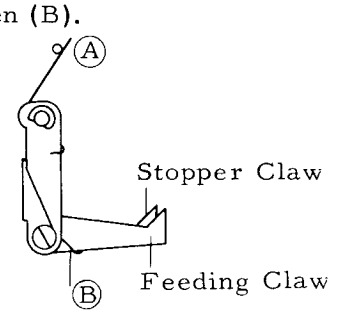
1. Resetting lever pressure is insufficient.
   Extend the tip of the lever by tapping it, or replace it.

Fig. 18



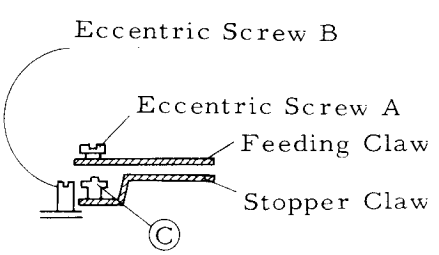
2. Feeding claw spring is weak.
   Strengthen (A).
   Slightly strengthen (B).

Fig. 19



3. Springs have come loose.
   Be especially careful against each spring release.
4. Stopper claw hits bottom surface of feeding claw.
   File off the dowel.

Fig. 20



5. Friction between stopper and feeding claws.
   Raise the feeding claw. (Refer to Fig. 20)
6. Adjustment of feeding and stopper claws is bad.
   Check the strength of each spring. Turn the eccentric screws of A and B and adjust the feed quantity. The tip of the feeding claw should be slightly longer than the stopper claw (0.2 - 0.3 mm). Adjust by filing. (Refer to Fig. 19).

Film counter stops midway.

1. Bad adjustment.
   Adjust the feed quantity by slightly increasing the feed quantity and make the film counter dial return a little after the stop claw catches.
2. Bad tooth shape.
   Replace Counter Gear 19-9465.

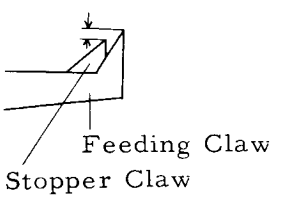
Film counter does not return

1. Resetting lever spring is weak.
   Strengthen Spring 97-6122.
2. Resetting lever tightening dowel hits plate dowel.
   File the dowel. (Refer to Fig. 18)
3. Feeding claw slips from resetting lever.
   Bend Feeding Claw 19-9470 downwards. (Refer to Fig. 20)
4. Spring presses against film counter dial shaft.
   Replace Spring 97-6119.
5. Counter dial rubs against index mark.
   Bend Counter Index 13-7066.

Film counter does not align

1. Stopped by feeding claw due to insufficient adjustment.
   Make adjustments so that the feeding claw is parallel with the stopper claw or slightly indented.

Fig. 21



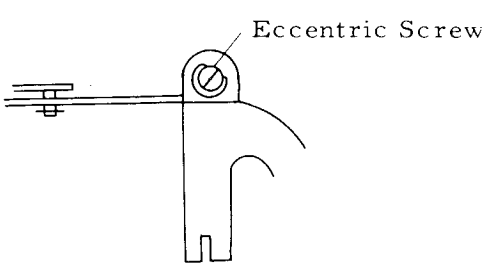
2. Gear hole is large.
   Replace Counter Gear 19-9465.
3. Attachment of counter dial is bad.
   Attach Counter Dial 97-8026 in the center.

SHUTTER

Shutter releases when wound up

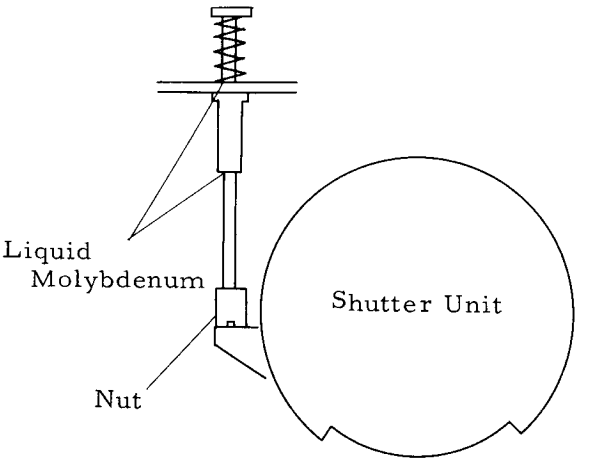
1. Shutter does not charge.
   Readjust shutter charge position.

Fig. 22



2. Shutter shaft is always pressing against release lever.
   Turn Nut 13-7168 on the tip of the shutter shaft to the right, push in, and make the entire shutter stroke shorter.

Fig. 23



3. Shutter shaft movement is bad.
   Put Liquid Molybdenum on the part of the stroke where friction arises.
4. Shutter is bad.
   Replace Shutter Unit X71-1101.
5. Circuit wire touches release lever and shutter shaft.
   Repair the wiring so that it does not touch the shutter shaft and the release lever.

B (bulb) becomes T (time)

1. Shutter shaft is always pressing against top cover.
   Make the stroke longer in the same manner as mentioned in preceding Clause 2.
2. The stroke while the shutter opens and closes is deep.
   Replace Shutter Unit X71-1101.
3. Release lever return is bad.
   Replace Shutter Unit X71-1101.

Shutter button shock

1. Shutter stroke is too short and presses coil spring.
   Make the shutter stroke longer. (Refer to Fig. 23)
2. Shutter button separates from guide shaft.
   Bend the tip of Shutter Button 19-9472 downwards.
3. Circuit wire touches shutter shaft and release lever.
   Repair the wiring.

Shutter release position is deep

1. Shutter shaft adjustment is bad.
   Readjust the shutter stroke. (Refer to Fig. 23)

Manual aperture does not cancel

1. Spring has become loose.
   Reattach coil spring A on the backside of the shutter unit.

CANON SERVICE TOOLS LIST

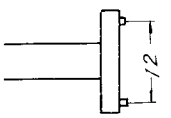
CANON DEMI
(REFERENCE NO. 1-45201)

TESTING EQUIPMENT

Use	Name of Testing Equipment
Focus	1. 200mm t-type collimator - 1 2. Plastic stand for Canonet to 200mm t-type collimater-2 3. Mirror for Canonet - 2
Field of View	1. Universal parallax collimator - 1 2. Frosted glass for focus
Exposure Meter	1. Inspection device for Canonet meter

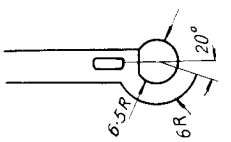
SPECIAL SCREWDRIVERS

TO6A-C2280
(13-2520)



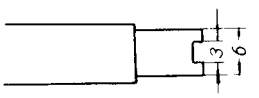
Tightening Pin Face Screw
See Repair Manual P. 1.

TO6A-C7023
(13-7023)



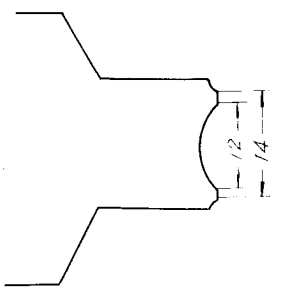
Tightening Assemble Collar
See Repair Manual P. 3.

TO6A-C7024
(13-7024)



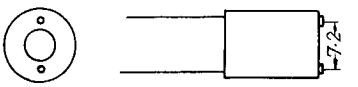
Tightening Spool Shaft
See Repair Manual P. 3.

TO6A-C7072
(27-8099)



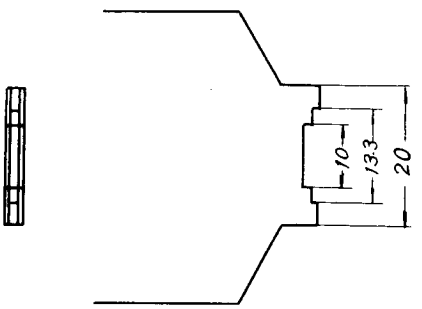
Tightening Assemble Collar
See Repair Manual P. 2.

TO6A-C7025
(13-7014)



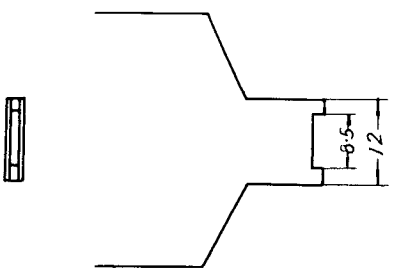
Due to Spool Shaft being weak, Winding Lever Shaft takes it's place.
See Repair Manual P. 3.

TO6A-C7074
(18-0130)



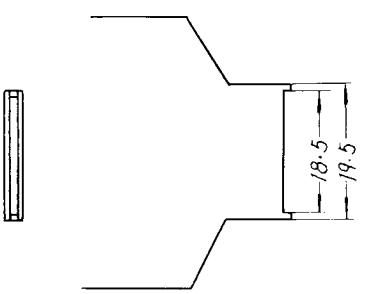
Tightening Rear Lens
See Repair Manual P. 2.

TO6A-C7075
(27-8100)



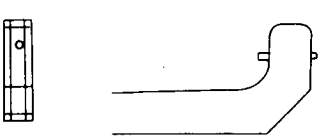
Tightening Assemble Collar
See Repair Manual P. 2.

TO6A-C7076
(13-7076)



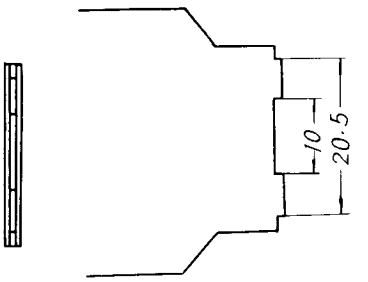
Tightening Lens Barrel
See Repair Manual P. 2.

TO6A-C7139
(13-7139)



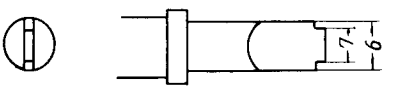
Tightening Sprocket Assemble Collar
See Repair Manual P. 4.

TO6A-C7077
(18-0109)



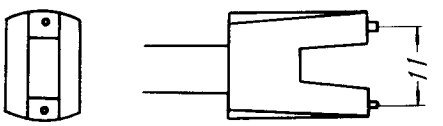
Tightening Helicoid
See Repair Manual P. 2.

TO6A-C7078
(27-8101)



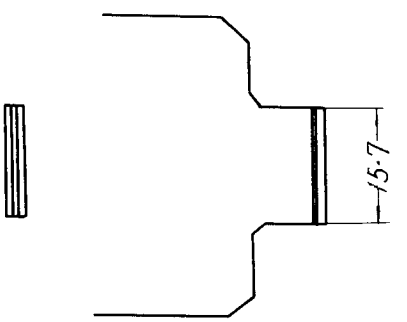
Tightening Assemble Collar
See Repair Manual P. 2.

TO6A-C7114
(13-7114)



Tightening Rewing Crank Rest
See Repair Manual P. 1.

TO6A-C7138
(13-7138)



Tightening Sprocket Bearing
See Repair Manual P. 4.